

FIG. 1

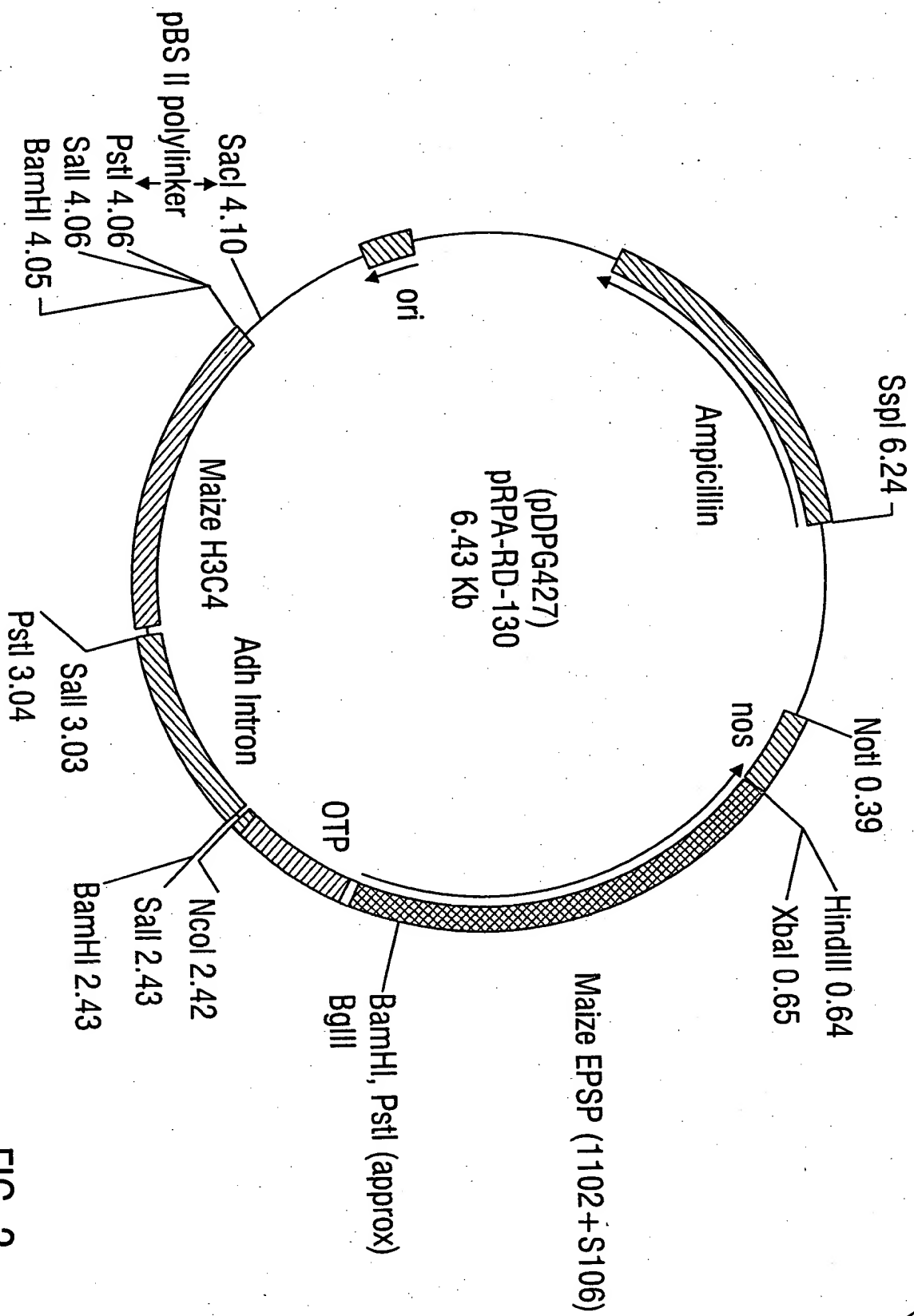


FIG. 2

FIG. 3

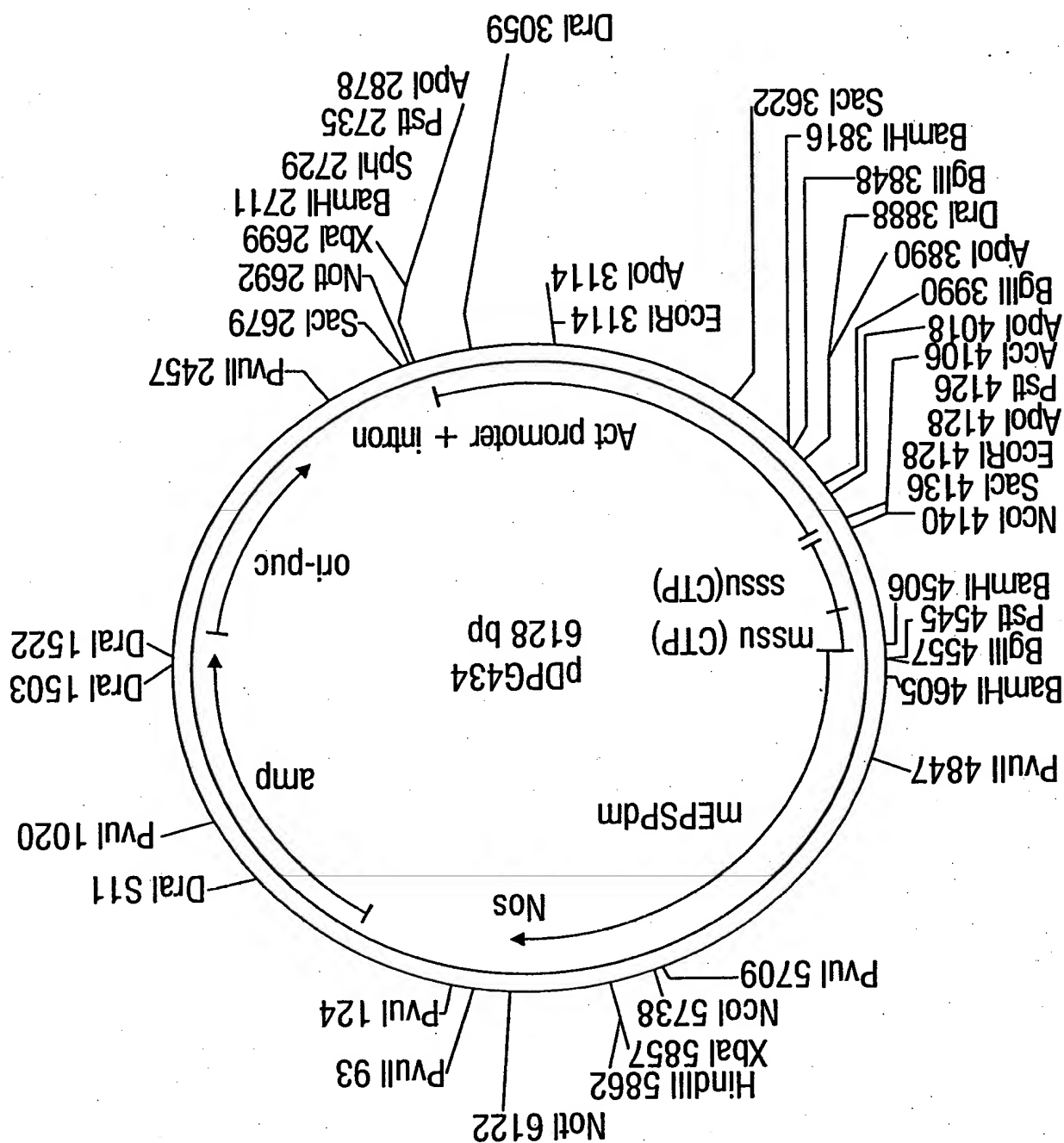


FIG. 4

Polylinker: 4.26/SacI.BstXI.SacII.XmaIII.NotI.XbaI.SpeI.BamHI.

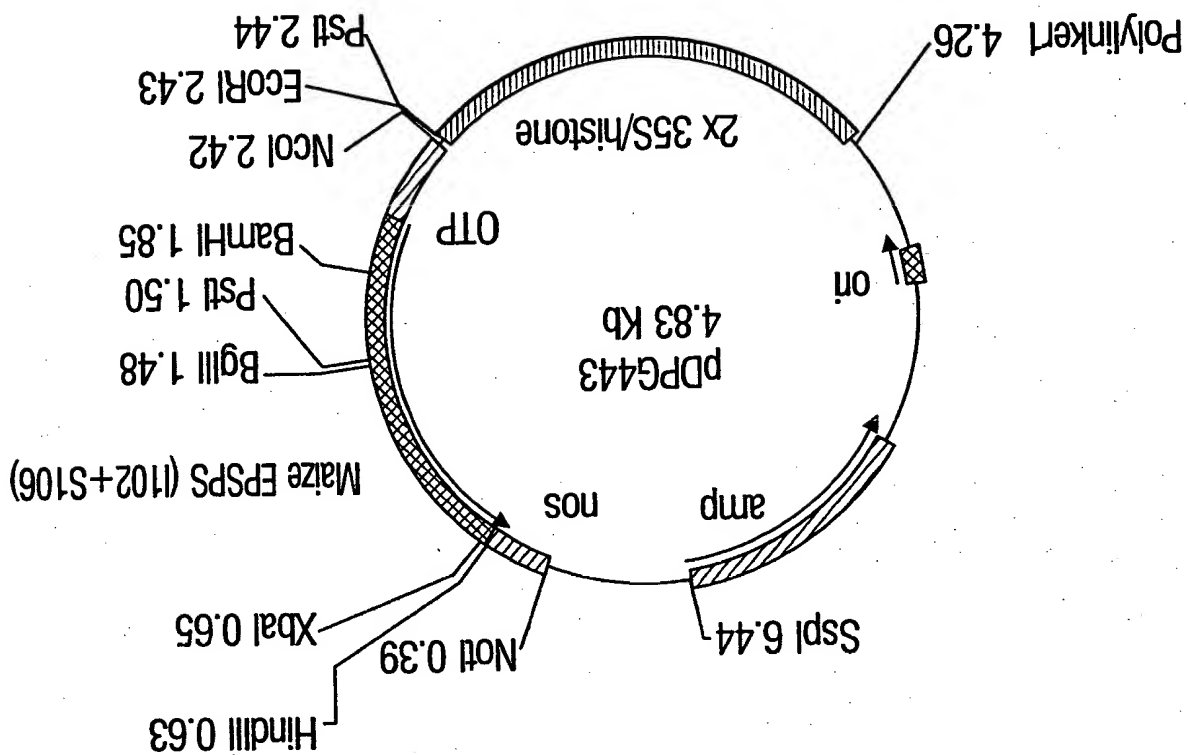
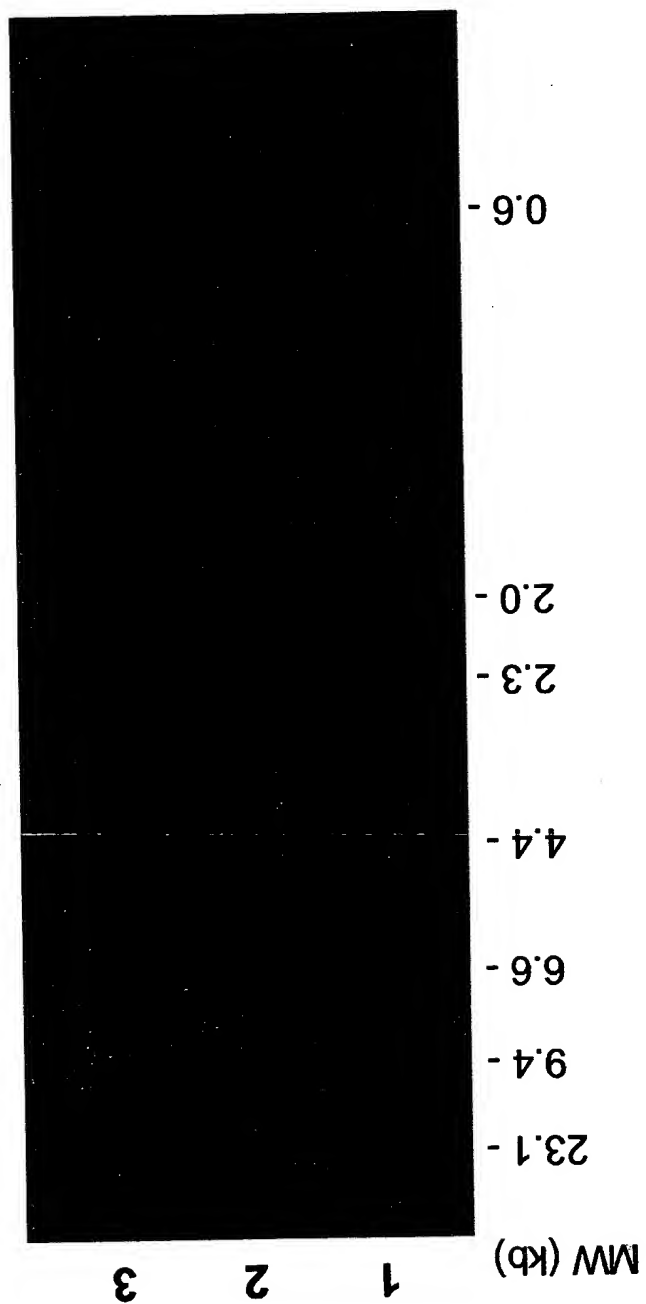
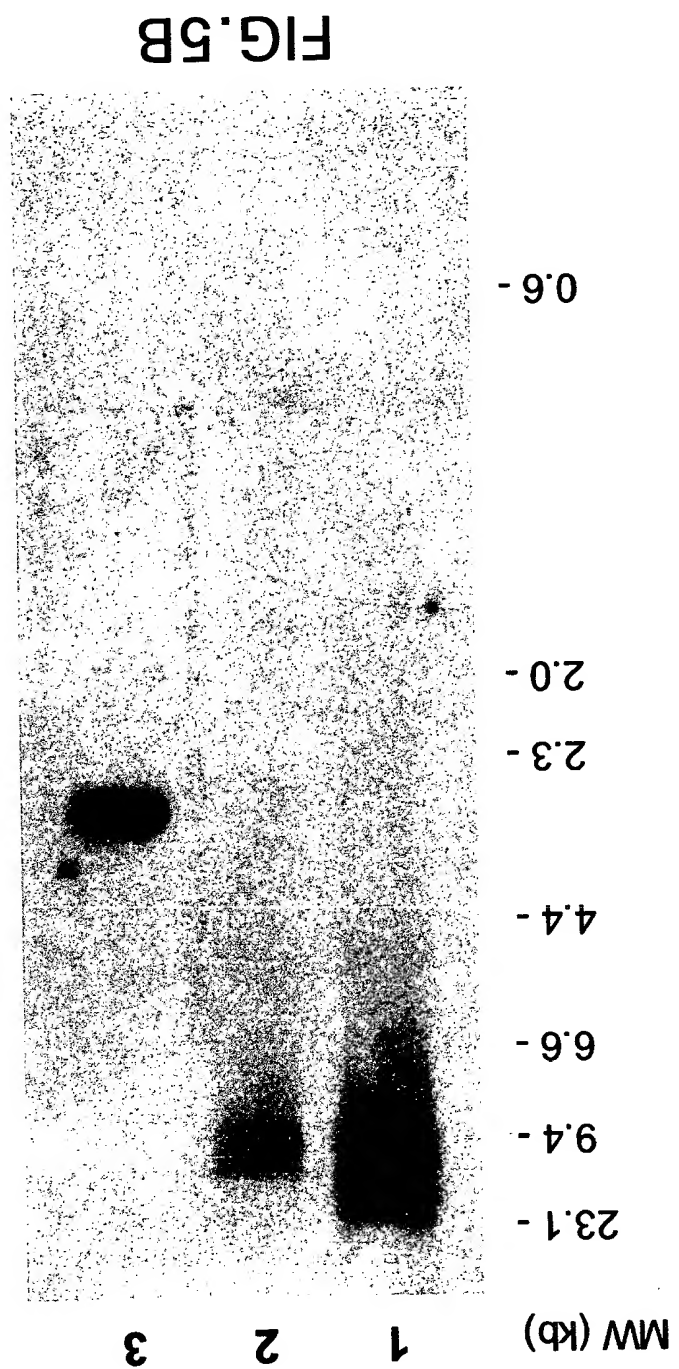


FIG. 5A





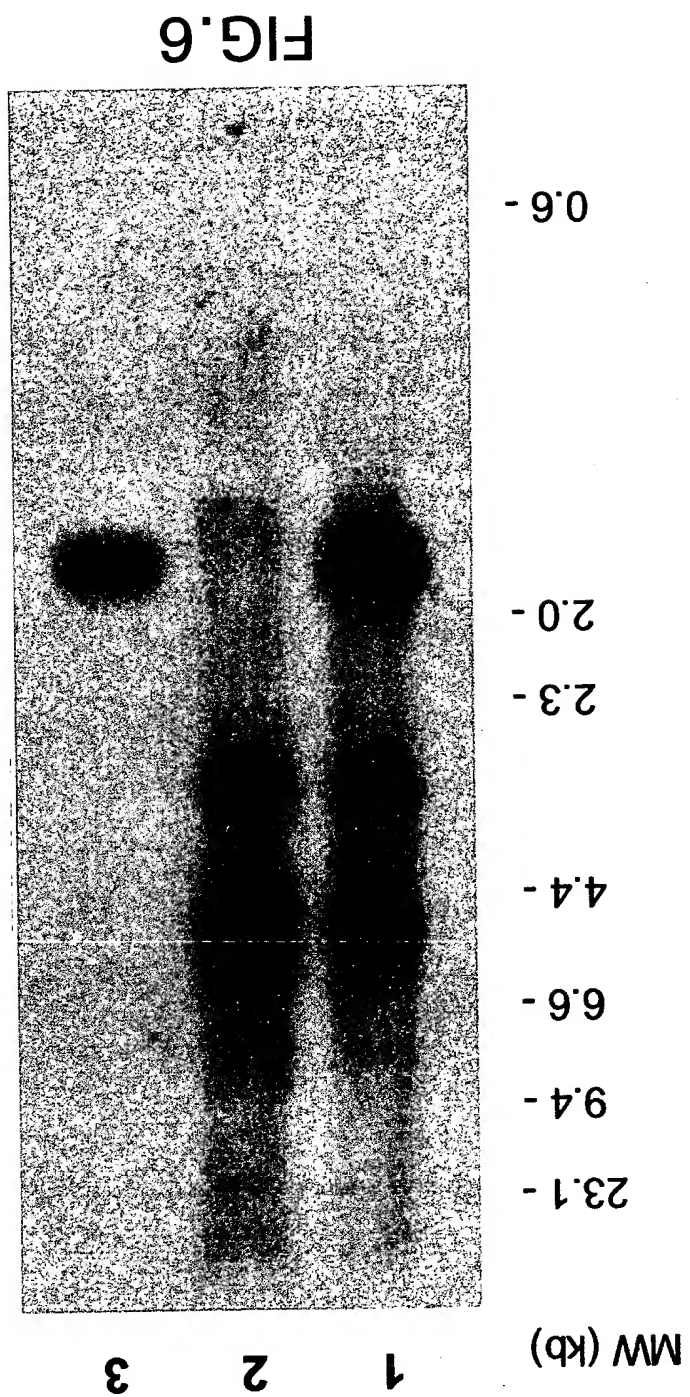
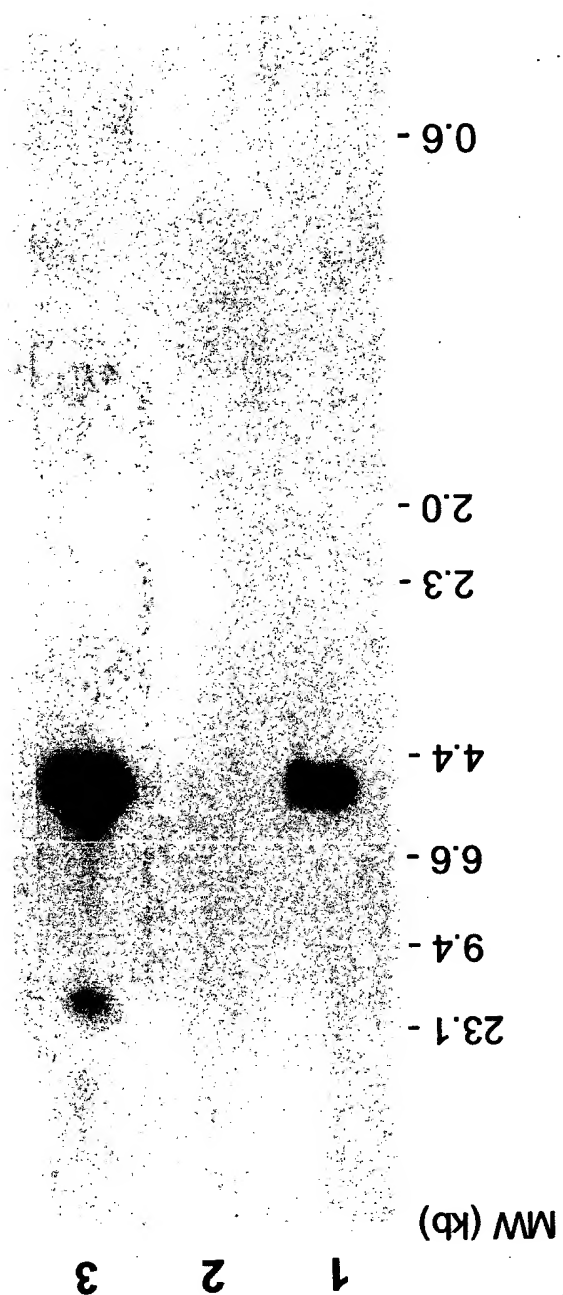


FIG. 7





HYBRID	EVENT	MEAN ELH 10 DAT V4 ROUNDUP APPLICATION						MALE STERILE
		0X	1X	Diff	RANK	4X	Diff	RANK
DK580	GA21	104.1	102.4	1.7	1	102.3	1.8	1
	FI117	100.1	97.7	2.3	2	97.7	2.4	2
	GJ11	105.0	102.4	2.6	3	98.6	6.5	3
	GG25	105.5	99.4	6.2	4	97.3	8.3	4
	GA21	98.8	97.1	1.8	3	97.9	1.0	1
DK626	FI117	96.4	91.3	5.1	4	92.7	3.7	3
	GJ11	96.0	96.8	-0.8	1	94.0	2.0	2
	GG25	99.5	97.8	1.6	2	93.1	6.4	4

FIG. 8A

HYBRID	EVENT	MEAN ELH 10 DAT V8 ROUNDUP APPLICATION						MALE STERILE
		0X	1X	Diff	RANK	4X	Diff	RANK
DK580	GA21	142.7	139.6	3.1	3	139.2	3.5	2
	FI117	143.4	139.5	3.9	4	139.1	4.3	3
	GG25	141.4	139.8	1.6	2	136.5	5.0	4
	GJ11	139.3	139.3	0.0	1	137.3	2.0	1
	DK626	134.8	139.2	-4.4	1	134.0	0.8	1
DK626	FI117	135.4	134.2	1.3	4	132.1	3.3	4
	GJ11	135.7	137.7	-2.0	2	133.1	2.6	3
	GG25	135.5	136.6	-1.0	3	134.0	1.6	2

FIG. 8B

LEVEL 1		LEVEL 2		DIFFERENCE	Prob>T
HYBRID	RU* $\sigma$ TIMING	HYBRID	RU* $\sigma$ TIMING	(LEV. 1 - LEV.2)	
DK580	0X	DK580 FI117	0X	-16.60	0.0339
DK580	0X	DK580 FI117	4X $\sigma$ V4	11.33	0.1468
DK580 FI117	0X	DK580 FI117	4X $\sigma$ V4	27.97	0.0004
DK580	0X	DK580 GA21	0X	3.67	0.6378
DK580	0X	DK580 GA21	4X $\sigma$ V4	-5.35	0.4923
DK580 GA21	0X	DK580 GG21	4X $\sigma$ V4	-9.02	0.2478
DK580	0X	DK580 GG25	0X	-4.13	0.5957
DK580	0X	DK580 GG25	4X $\sigma$ V4	-3.50	0.6531
DK580 GG25	0X	DK580 GG25	4X $\sigma$ V4	0.63	0.9352
DK580	0X	DK580 GJ11	0X	-9.43	0.2267
DK580	0X	DK580 GJ11	4X $\sigma$ V4	-6.05	0.4376
DK580 GJ11	0X	DK580 GJ11	4X $\sigma$ V4	3.38	0.6640

FIG.9A

LEVEL 1		LEVEL 2		DIFFERENCE	Prob>T
HYBRID	RU* $\alpha$ TIMING	HYBRID	RU* $\alpha$ TIMING	(LEV. 1 - LEV.2)	
DK626	0X	DK626 FI117	0X	-11.10	0.1559
DK626	0X	DK626 FI117	4X $\alpha$ V8	5.12	0.5113
DK626 FI117	0X	DK626 FI117	4X $\alpha$ V8	16.20	0.0388
DK626	0X	DK626 GA21	0X	-2.58	0.7401
DK626	0X	DK626 GA21	4X $\alpha$ V8	-9.63	0.2171
DK626 GA21	0X	DK626 GG21	4X $\alpha$ V8	-7.05	0.3658
DK626	0X	DK626 GG25	0X	-6.93	0.3738
DK626	0X	DK626 GG25	4X $\alpha$ V8	23.97	0.0024
DK626 GG25	0X	DK626 GG25	4X $\alpha$ V8	30.90	0.0001
DK626	0X	DK626 GJ11	0X	1.70	0.8272
DK626	0X	DK626 GJ11	4X $\alpha$ V8	27.62	0.0005
DK626 GJ11	0X	DK626 GJ11	4X $\alpha$ V8	25.92	0.0011

FIG.9B

MM (kb)

23.1 -

9.4 -

6.6 -

4.4 -

2.3 -

2.0 -

1 2 3 4 5 6 7 8 9 10 11 12 13

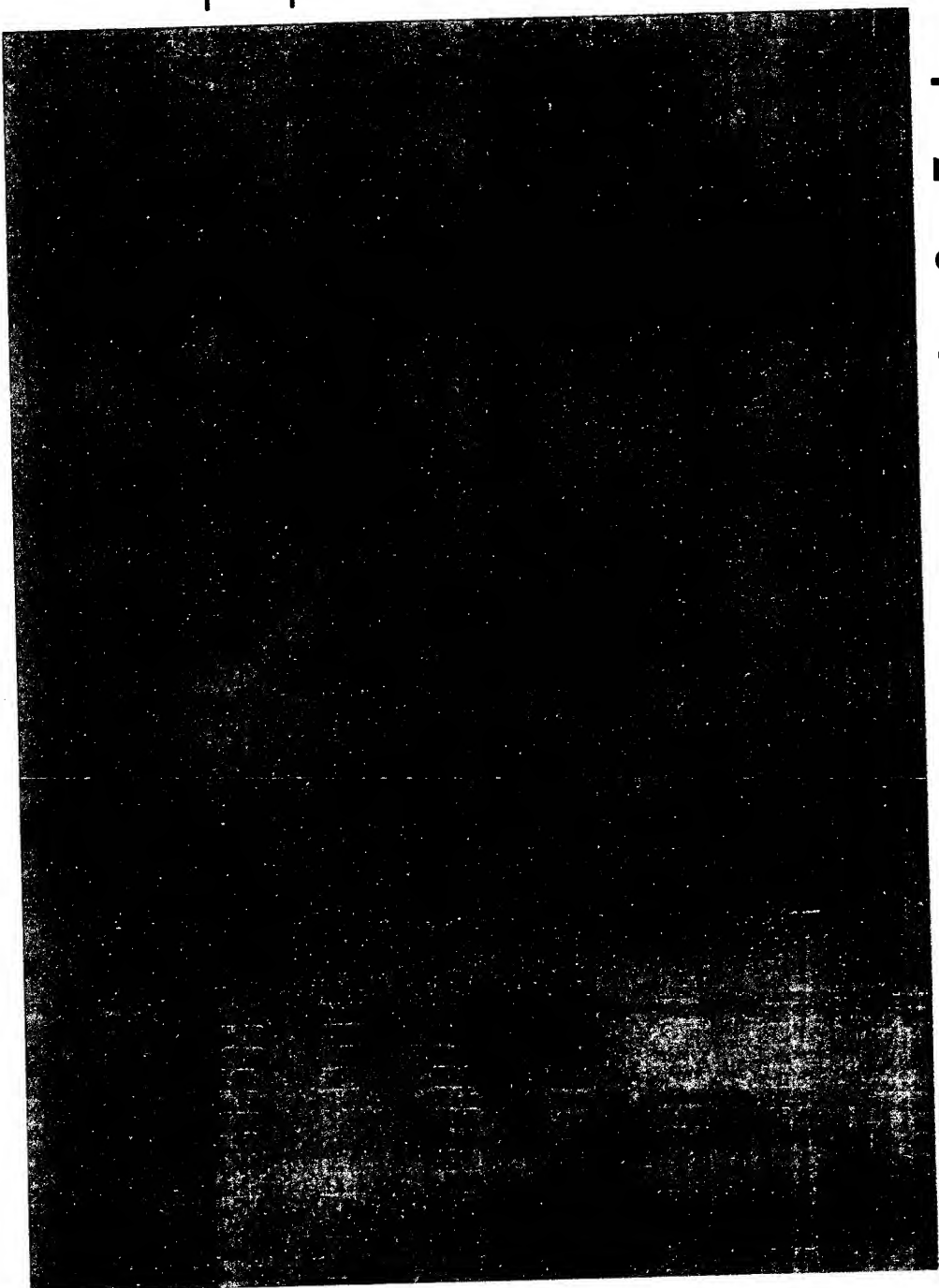
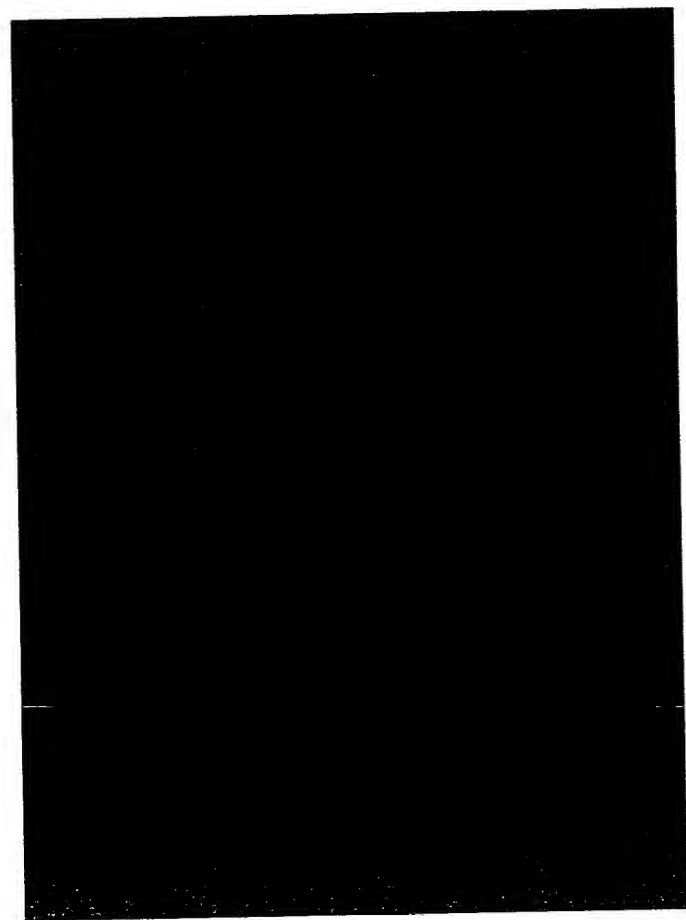


FIG. 10

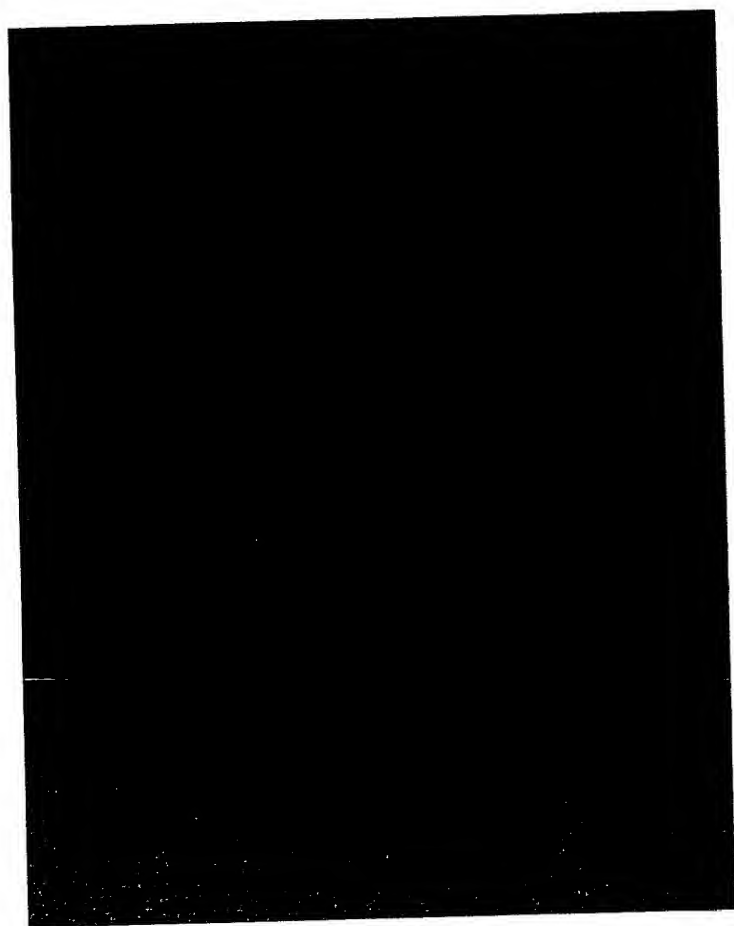


1 2 3 4  
MW (kb)

2.0 -  
2.3 -  
4.4 -  
6.6 -  
9.4 -  
23.1 -

FIG. 11A

FIG. 11B



4

3

2

1

MMW (kb)

2.0 -

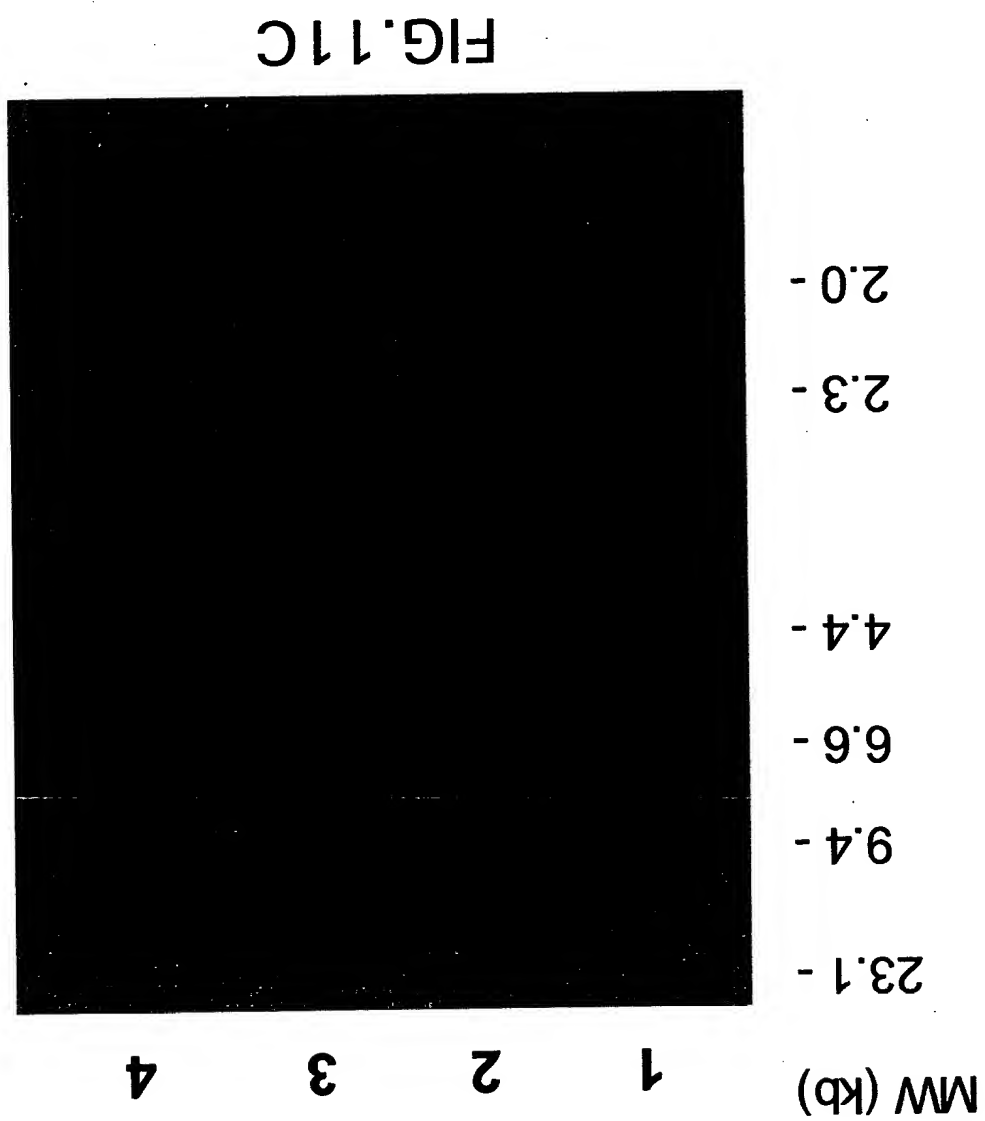
2.3 -

4.4 -

6.6 -

9.4 -

23.1 -





1 MASISSSVAT VSRTAPAQAN MVAPFTGLKS NAAFPTTKA NDFSTLPSNG  
51 GGRVQCMQVW PAYGNKKFET LSYLPPLSMA PTVMMASSAT AVAPFQGLKS  
101 TASLPVARRS SRSLGNVSNG GRIRCMAEAE EIVLOPIKEI SGTVKLPGSK  
151 SLSNRILLIA ALSEGTTVVD NLLNSEDVHY MLGALRTLGL SVEADKAAGR  
201 AVVVGCGGKF PVEDAKEEVQ LFLGNAGIAM RSLTAAVTAA GGNATYVLDG  
251 VPRMRERPIG DLVGLKQLG ADVDCFLGTD CPPVRVNGIG GLPGGKVLKLS  
301 GSISSQYLSA LLMAAPLALG DVEIEIIDL ISIPYEMTL RLMEFVGKA  
351 EHSDSWDRFY IKGOKYKSP KNAYVEGDAS SASYFLAGAA ITGTVTVEG  
401 CGTTSLOGDV KFAEVLEMNG AKVTWTETSV TVTGPPREPF GRKHLKAIDV  
451 NMNKMPPDVAM TLAVVALFAD GPTAIRDVAS WRVKETERMV AIRTELTKLG  
501 ASVEEGPDYC IITPEKLVN TAIDTYDDHR MAMAFSLAAC AEVPTIRDP  
551 GCTRKTFFDY FDLSTFVKV

FIG. 12

FIG. 13-1	FIG. 13-2
FIG. 13-3	FIG. 13-4

FIG. 13

# 963019 Test Map Example

REP	ROW	COL1	COL2	COL3	COL4	COL5	COL6	COL7	COL8
3	4	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
	4	GA21	GA21	GA21	GA21	N-0X	GA21	GJ11	GJ11
	4	T-4X@V4	T-4X@V8	T-1X@V8	T-1X@V4	T-0X	T-0X	T-4X@V4	T-1X@V8
3	3	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
	3	F1117	F1117		F1117	F1117	F1117	GA21	GA21
	3	T-1X@V4	T-1X@V8	N-0X	T-0X	T-4X@V4	T-4X@V8	T-1X@V8	T-4X@V4
3	2	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
	2	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25
	2	T-1X@V8	T-4X@V8	T-0X	T-1X@V4	N-0X	T-4X@V4	T-1X@V4	T-4X@V8
3	1	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626
	1		GJ11	GJ11	GJ11	GJ11	GJ11	F1117	F1117
	1	N-0X	T-4X@V8	T-1X@V4	T-4X@V4	T-0X	T-1X@V8	T-4X@V8	T-0X
2	4	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
	4	GJ11	GJ11		GJ11	GJ11	GJ11	GJ11	GJ11
	4	T-0X	T-1X@V4	N-0X	T-4X@V4	T-1X@V8	T-4X@V8	T-1X@V8	T-1X@V4
2	3	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
	3	GG21	GA21	GA21	GA21		GA21		GG25
	3	T-4X@V8	T-1X@V8	T-4X@V4	T-0X	N-0X	T-1X@V4	N-0X	T-0X
2	2	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
	2	GG25		GG25	GG25	GG25	GG25	F1117	F1117
	2	T-1X@V8	N-0X	T-4X@V4	T-1X@V4	T-0X	T-4X@V8	T-4X@V4	T-0X
2	1	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
	1	F1117		F1117	F1117	F1117	F1117	GA21	
	1	T-4X@V8	N-0X	T-0X	T-1X@V4	T-1X@V8	T-4X@V4	T-4X@V4	N-0X

FIG. 13-1

COL 9	COL 10	COL 11	COL 12
DK626	DK626	DK626	DK626
N-0X	GJ11	GJ11	GJ11
DK626	T-4X@V8	T-0X	T-1X@V4
N-0X	DK626	DK626	DK626
GA21	GA21	GA21	GA21
T-0X	T-0X	T-1X@V4	T-4X@V8
DK626	DK626	DK626	DK626
GG25	GG25	GG25	GG25
T-0X	T-1X@V8	T-4X@V4	N-0X
DK626	DK626	DK626	DK626
FI117	FI117		FI117
T-1X@V8	T-4X@V4	N-0X	T-1X@V4
DK626	DK626	DK626	DK626
GJ11	GJ11		GJ11
T-4X@V8	T-4X@V4	N-0X	T-0X
DK626	DK626	DK626	DK626
GG25	GG25	GG25	GG25
T-4X@V8	T-1X@V8	T-1X@V4	T-4X@V4
DK626	DK626	DK626	DK626
FI117	FI117	FI117	
T-1X@V4	T-4X@V8	T-1X@V8	N-0X
DK626	DK626	DK626	DK626
GA21	GA21	GA21	GA21
T-4X@V8	T-1X@V8	T-0X	T-1X@V4

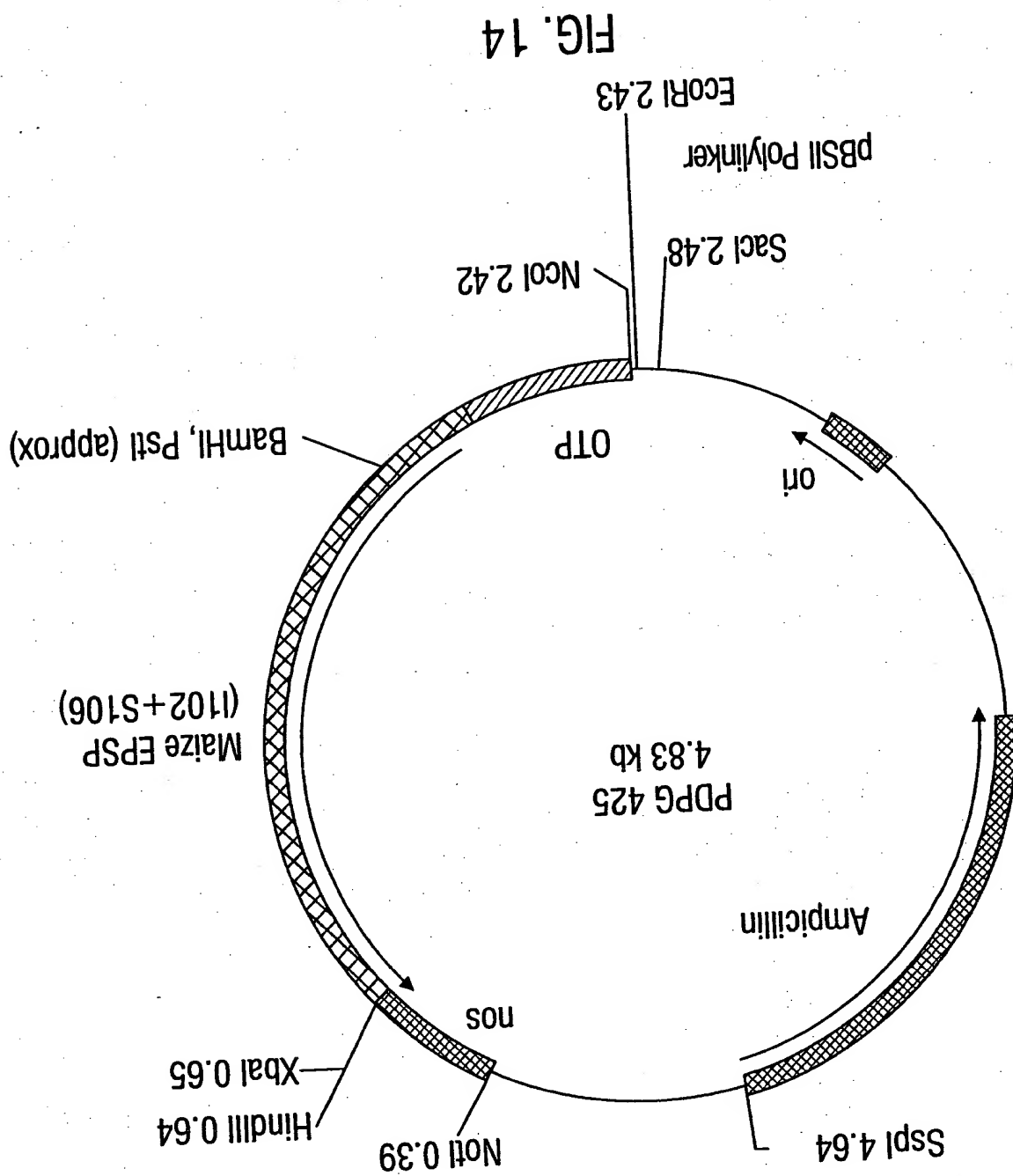
FIG. 13-2

1	4	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
1	4	GA21		GA21	GA21	GA21	GA21	GA21	GA21
1	4	T-4X@V8	N-OX	T-1X@V8	T-4X@V4	T-1X@V4	T-OX	T-4X@V4	T-4X@V8
1	3	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
1	3	F1117	F1117	F1117	F1117	F1117	F1117	F1117	F1117
1	3	T-4X@V4	T-1X@V4	N-OX	T-1X@V8	T-OX	T-4X@V8	T-1X@V4	T-4X@V8
1	2	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
1	2	GJ11	GJ11	GJ11	GJ11	GJ11	GJ11	GG25	GG25
1	2	T-4X@V8	T-4X@V4	T-OX	N-OX	T-1X@V4	T-1X@V8	T-4X@V4	T-4X@V8
1	1	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626
1	1		GG25	GG25	GG25	GG25	GG25	GJ11	GJ11
1	1	N-OX	T-OX	T-4X@V4	T-4X@V8	T-1X@V4	T-1X@V8	T-4X@V4	T-1X@V8

FIG. 13-3

DK626	DK626	DK626	DK626
GA21	GA21	GA21	N-0X
T-0X	T-1X@V4	T-1X@V8	DK626
DK626	DK626	DK626	F1117
F1117		F1117	T-0X
T-4X@V4	N-0X	T-1X@V8	DK626
DK626	DK626	DK626	GG25
GG25		GG25	T-1X@V4
T-0X	N-0X	T-1X@V8	DK626
DK626	DK626	DK626	
GJ11	GJ11	GJ11	
T-0X	T04X@V8	T01X@V4	N-0X

FIG. 13-4



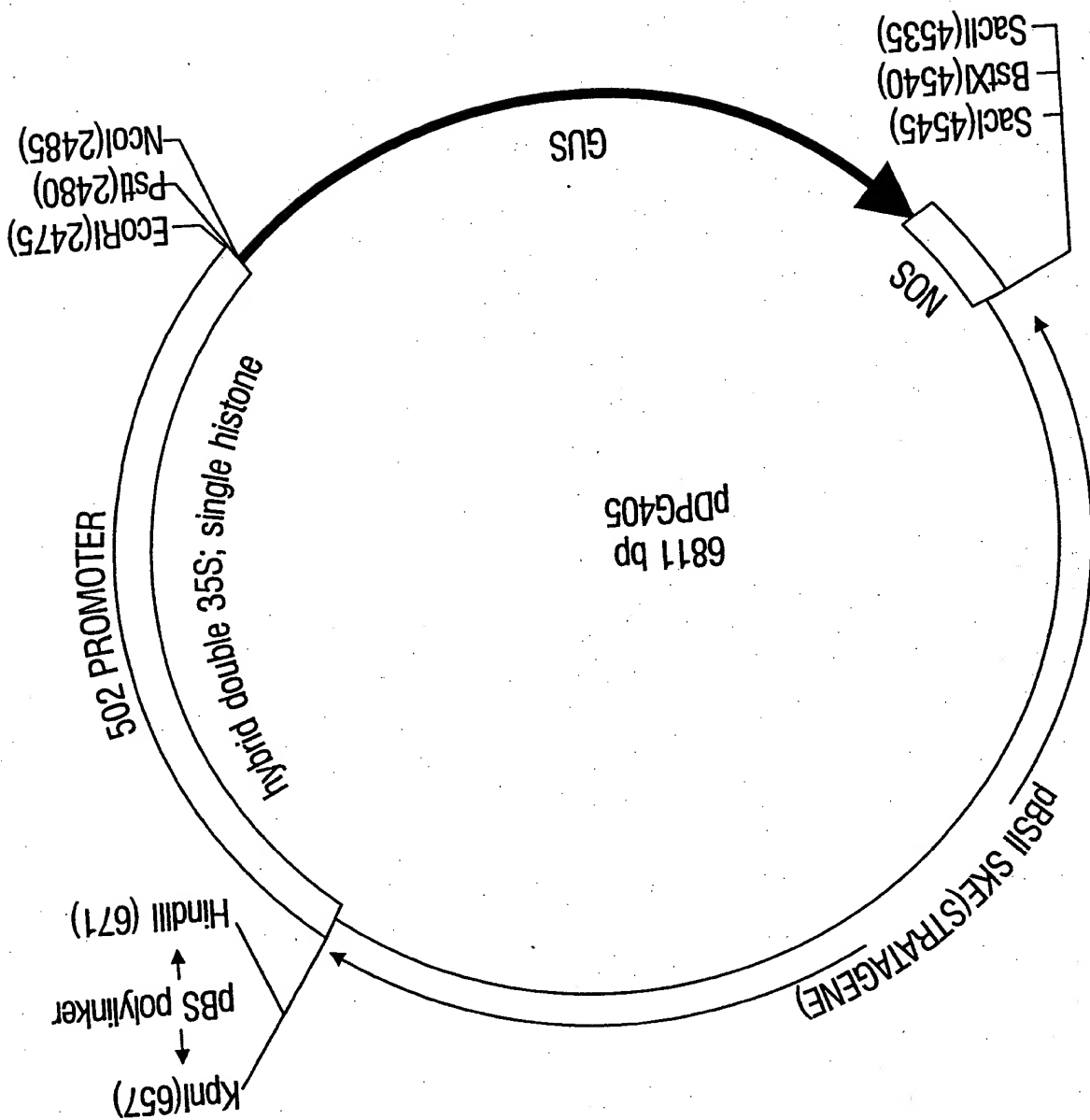


FIG. 15